128 604/903

Simplex Serum Equipment

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The Simplex Tail Bleeding and Defibrinating Machine

The Simplex Combination Two-way Hog Crate

RETURN TO division 55

R. T. French

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Published Nov-1928

Simplex Manufacturing Company

101-103 Live Stock Exchange Building

SIOUX CITY, IOWA

OFFICERS AND DIRECTORS

W. F. GILCHRIST S. F. CUSACK C. M. STILWILL W. G. HOWE F. B. MORGAN

The Simplex Tail Bleeding and Defibrinating Machine

A Time Saver—A Money Saver A Money Maker

Tail Bleeding hogs by hand has never been an efficient process. It has been unduly costly both from a standpoint of labor involved and the loss sustained by imperfect defibrination, clotting and slow bleeders or hogs that would not bleed. There are many reasons why this is true.

Labor Costs Saved

First, there is the matter of labor costs. The Fort Dodge Serum Company, Fort Dodge, Iowa, has nine stations which according to their letter, reproduced here, formerly required eleven men to operate. With the Simplex Tail Bleeding and Defibrinating Machine they are operating these nine stations with **two** men. Right at the start that saves the salaries of **nine** men, which is a saving in man power and salaries of 81 per cent.

In addition to the large saving in salary in this plant, there would be the investment in uniforms and the laundry bills for exactly nine more men than is required by this modern, mechanically efficient machine.

So far we have considered only the actual outlay in salaries, uniforms and laundry bills necessary to operate nine stations by the hand tail bleeding method as compared with the same costs of operating nine stations with the Simplex Tail Bleeding and Defibrinating Machine. Practically the same ratio of savings is affected regardless of the number of stations.

Laundry, Clothing Bills Saved

An equally, if not more important matter to be considered is the greater efficiency with which the Simplex Machine tail bleeds and defibrinates as compared with the old hand method.

The machine never gets tired, and all adjustments are easily and quickly made. It defibrinates as perfectly after hours of steady operation as it did the first minute it started. Defibrination is uniform, clotting is practically eliminated and therefore the recovery is much greater. The tireless precision of this machine saves money and makes money because it eliminates waste.

Greater Efficiency

The work can proceed regardless of noon hours, provided satisfactory arrangements can be made with inspectors in charge of virus-serum control work. With this machine there are none of the losses of time which are unavoidable when doing any job by hand.

Slow bleeders have always resulted in a loss of serum because under the old hand bleeding process the operator got tired, defibrination was imperfect and

(Continued on Page 5)

Dr. D. E. BAUGHMAN, PRESIDENT & GENERAL MANAGER
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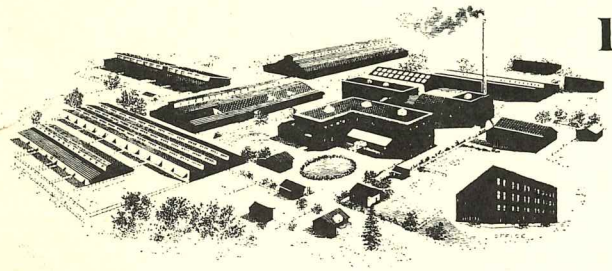

FORT DODGE SERUM COMPANY

ANTI-HOG CHOLERA SERUM
HOG CHOLERA VIRUS
VETERINARY BIOLOGICS
AND PHARMACEUTICS

FORT DODGE, IOWA

September 29, 1928.

Simplex Manufacturing Co.,
Sioux City, Iowa.

Gentlemen:

In reply to your inquiry as to how we like our Simplex Tail Bleeding and Defibrinating Machine, I will say that we have used this machine about five months and it does its work in a very economical and satisfactory manner. We find that the work is done more sanitary than with the ordinary Hand Bleeding.

Defibrination with this machine practically eliminates clots, as the machine does not get tired. It defibrinates just as effectively in the afternoon as it does in the morning; therefore, we get a uniform defibrination and a larger recovery than with the old method. This item alone will pay for the royalty on this machine.

Troubles with slow bleeders are practically eliminated as you can give these slow bleeders as much time as is necessary, while with Hand Bleeding the operator gets tired, thereby having a loss of serum that is quite an item in a day's operation.

We have a nine station equipment operated by two men, which formerly took eleven men to operate. This machine has eliminated the salary of nine men, also the investment in uniforms for nine men, and the expense of laundry for nine men.

The Combination Simplex Tail Bleeding and Defibrinating Machine can be run continuously through the noon hour on busy days, thus eliminating the waste of time in stopping for the noon hour and also starting again, as there is always a considerable loss of time in stopping and starting during the noon hour.

QUALITY · RELIABILITY · SERVICE
"Ask the Doctor who uses it"

Simplex Manufacturing Co. #2 September 29, 1928.

We find the machine very simple and easy to operate. Any individual station can be stopped or started without interfering with any of the other stations, although it is operated by only one motor.

The machine is not bulky, is neat in appearance and and does not take up a lot of floor space. We think it would be adaptable in any Serum Plant.

We feel that this machine is a time saver, money saver, and a money maker. We do not believe that any company can appreciate its real value until they have given it a trial. We would not do without this machine for any considerable sum of money.

Very truly yours,

D E Baughman

PRESIDENT AND GENERAL MANAGER
FORT DODGE SERUM COMPANY.

DEB:LH

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enough time was not allowed for full recovery. With the Simplex Machine the slow bleeders can be allowed all the time that is necessary without slowing up the process in the other stations. The only item at stake is the additional time necessary to get the full recovery. Defibrination is perfect with the slow bleeders as with all others and a full recovery is affected without the loss of a man's time who in the end could not do as complete and perfect a job. And—it would cost more for him to try.

Slow Bleeders

The Simplex Machine satisfies the strictest requirements for sanitary conditions in tail bleeding and defibrinating. The entire machine and the manner in which it operates has been designed to meet sanitary requirements as one of its most important features.

Sanitary Conditions

The saving in serum resulting from more uniform bleedings, more perfect defibrination and greater recovery from slow bleeders plus the saving in laundry and clothing, effected by the Simplex Machine as compared with the hand process, will much more than pay the salaries of the men operating the machine, as well as the cost of the machine. Hence, the saving in salaries alone, of 81 per cent, made possible by the economies of the machine, remains as clear profit. We feel that in no sense is this an exaggerated statement and we are basing it on the experience of plants using the machine. In addition to these dollar and cents advantages, there is the all important matter of greater sanitation and hence, a better product.

Savings

Six Station Machine

Photograph No. 1 shows the six station machine operated now by the Sioux City Serum Company at Sioux City. The machine is neat in appearance and occupies a small amount of floor space, requiring no more space than is necessary for hand bleeding. Photograph No. 2 shows a close-up view of the Simplex Combination Two Way Hog Crate in position at the station with the specially constructed sanitary horn attached ready for work to proceed.

All Metal Tail Bleeding Horn

The all metal tail bleeding horn is one of the most important features of the Simplex Machine. The horn is straight and highly polished on the inside with the result that there are no joints, or bends, or pits to make it unsanitary and hard to clean. A brush can be run through the horn giving it a complete scouring on all of the inside surface. The horn is big enough in diameter at both ends to make possible easy bleeding, a perfect attachment and perfect cleanliness.

Independent Stations

One small motor operates all of the stations simultaneously or one or more of the stations independently of the others. Starting or stopping, and the entire operation of the machine, is practically noiseless. Any one of the stations may be started or stopped by inserting into or removing from the drive shaft a small tapered pin. This method of starting and stopping the stations has been devised because it is the most simple, the quickest and the quietest.

Complete Recovery of Serum

After the horn is fitted into place and the machine started, a small oscillating rod fits up against the hog around the base of the tail and massages that area. This rod pushes against the hog and acts in a slightly contrary manner to the vacuum in the horn, thus causing the blood to flow more freely and making certain full recovery of serum.

Simple Construction

Directly under the bottle and supporting it is a universal joint worked by a double hinge to make certain of perfect adjustment of the jar and the horn to the hog. This insures a perfect vacuum and makes it possible for the jar to oscillate without pulling away from the hog.

Superior Design

All exposed parts of the machine are nickel plated, aluminum or bronze. All bushings are of bronze. The Simplex Tail Bleeding and Defibrinating Machine has been designed with painstaking care to do a specific job and do it better and more economically than it has ever been done before. It is built to actually perform and produce results. It is simple in operation, satisfies sanitary requirements in an ideal manner, and is a finished product in every respect.